EMI Shielding Glass Screen for High-Performance Electromagnetic Protection

In today's high-tech industries, Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) can affect system reliability, distort critical signals, and compromise data integrity. To ensure operational continuity, Ghiringhelli Mario designs and manufactures high-performance EMI Shielding Glass Screens engineered to block unwanted electromagnetic energy while maintaining outstanding optical clarity and mechanical strength.

An **EMI Shielding Glass Screen** is a transparent glass panel laminated with a fine wire mesh or conductive layers, forming a barrier that prevents EMI/RFI from penetrating sensitive equipment. Compared with standard conductive films, wire-mesh glass provides superior attenuation levels (up to 120 dB, application-dependent) and long-term environmental durability — ideal for demanding industrial and military conditions.

Key Features and Benefits

- Exceptional shielding effectiveness against EMI/RFI and static discharge
- High optical transparency for accurate display readability
- Mechanical durability and resistance to humidity, corrosion, and thermal stress
- Custom sizes and coatings for specific standards (e.g., NATO AEP-55, STANAG 4569, MIL-STD-461)
- Easy integration with conductive gaskets, frames, and enclosure systems

Applications

- **Defense & Military**: control consoles, armored vehicle displays, secure viewing windows
- **Medical & Diagnostic**: monitoring and imaging systems (MRI environments, shielding windows)
- **Cleanroom & Laboratory**: process monitoring and inspection panels
- **Aerospace & Avionics:** navigation and communication instrument panels
- **Industrial & Commercial**: display enclosures and instrumentation

Why Choose Ghiringhelli Mario

With decades of experience in EMI shielding and EMC solutions, Ghiringhelli Mario specializes in wiremesh glass technology that guarantees the highest levels of electromagnetic protection. Each screen is custom-engineered and manufactured in-house for precision, quality assurance, and compliance with international standards. Our engineering team supports clients from

concept to integration, delivering assemblies that combine durability, transparency, and superior shielding.

Complementary:EMI Shielding Films

While wire-mesh glass remains our core technology for maximum attenuation, EMI shielding films are a complementary solution where lightweight optical protection is required. These films can also be laminated with glass, acrylic, or polycarbonate to create rigid EMI shielding panels — extending Ghiringhelli Mario's range of advanced protection materials without compromising our focus on high-performance glass.

Conclusion

Choosing an EMI Shielding Glass Screen by Ghiringhelli Mario means securing the perfect balance between clarity and protection. Our continuous innovation in metal mesh technology and material science makes us a trusted partner for defense, medical, and industrial sectors requiring uncompromising EMI performance.